

STAFIYCHUK, A. A.

Hay

Nutritive quality of rye hay in relation to the period of harvest. Korm. baza 3 No.6, 1952

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

STAFILICHUK, A. A.

Vetch

Feed value of beaded vetch. Korm. baza 3 no. 8, 1952

Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED.

1. STAFIYCHUK, A.A.
2. USSR (600)
4. Hay
7. Content and digestability of general and organic sulfur in hay depending upon harvesting time. Kokl.AK. sel'khoz 17 no 10 1952
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

STAFIYCHUK, A.A.

Quantity and digestibility of certain amino acids in hay from Sudan
grass and Italian millet. Dop. AN URSR no.4:271-274 '54.
(MIRA 8:4)

1. Ukrain's'kiy n.-d. institut zernovogo gospodarstva im. Kuybysheva.
Predstavleno deystvitel'nyy chlenom Akademii nauk USSR A.I.Dushechki-
nym.

(Amino acids) (Hay)

USSR/Cultivated Plants - Fodder .

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15710

Author : A.A. Staflychuk

Inst : The All-Union Scientific Research Institute for Corn .

Title : The Food Value of Ensilaged Corn in Relation to the
Harvesting Times.
(Pitatel'nost' kukuruznogo silosa v zavisimosti ot
srokov uborki).

Orig Pub : Byul. Vses. n.-i. in-ta kukuruzy, 1956, No 2, 14-18.

Abstract : At the Erastovskiy Experimental Field in 1955 corn
standing at a plant density of 30 thousand plants per 1
hectare were harvested in three periods: at the begin-
ning, in the middle and at the end of the milky stage
of cob ripeness. Tests of the digestibility of all the
ensilage was made on wethers, and the ensilaged cobs on

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STAFIYCHUK, A.O., kand. sel'skokhozyaystvennikh nauk

Utilization of corn. Nauka i zhyttia 9 no.3:34-35 Mr '59.
(MIRA 12:4)

(Corn (Maize))

STAFIYCHUK, A.A. kand.sel'skokhoz.nauk

Determining the quality of protein in corn. Dokl.Akad.sel'khoz.
24 no.6:7-9 '59. (MIRA 12:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy.
Predstavlena akademikom B.P.Sokolovym.
(Corn(Maize)) (Proteins)

STAFIYCHUK, Andrey Afanas'yevich [Staflichuk, A.O.], kand. sel'-
khoz.nauk; ZADONTSEV, A.I., zasl. deyatel' nauki USSR,
akademik, red.; LIVENSKAYA, O.I. [Livens'ka, O.I.], red.;
GLUSHKO, G.I. [Hlushko, H.I.], tekhn. red.

[Using corn as silage] Vykorystannia kukurudzy na sylos.
Dnipropetrovs'k, Dnipropetrovs'ke kryzhkove vyd-vo, 1961. 14 p.
(MIRA 15:7)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta
kukuruzy i Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk
im. V.I.Lenina (for Zadontsev).
(Ukraine—Corn (Maize)) (Ensilage)

2

(A

Dynamics of the polarization of barium titanate. E. V. Sinyakov, E. A. Stanichuk, and B. K. Chernyi (Dnepropetrovsk State Univ.). *Zhur. Eksp. Teoret. Fiz.* 21, 610-17 (1951). —The dielec. const. ϵ of BaTiO_3 was measured in rectangular d.c. impulses produced by impacts of steel balls against a steel plate; variation of the size of the steel balls permitted variation of the duration of the impulse from 5×10^{-8} to 9×10^{-8} sec. (1) Within those limits, the variation of ϵ as a function of the temp. is unaffected by the length of the impulse; ϵ at the Curie point is slightly greater than in high-frequency (10^6 hertz) a.c. The error inherent in ballistic measurements in d.c., and due to the cond., is eliminated in the short rectangular impulse method. (2) Curves of ϵ as a function of the elec. field strength E (1-20 kv/cm), below the Curie point, have a max.; that this is

not due to foregoing polarization at the lower E is demonstrated by the persistence of the shape of the curve and the max. in expts. in which previous polarization was authentically wiped out by heating to 200° between consecutive measurements. In cyclic variation of E , below the Curie point, the polarization Q forms a hysteresis loop even though max. is not reached; the 1st loop is distinctly asym. with respect to the axis of E , but this asymmetry diminishes in repeated cycles. The spontaneous polarization is of the order of $4-6.6 \times 10^{-8}$ coulombs/sq. cm. (3) In contrast to Rochelle salt, the polarization Q in BaTiO_3 is not additive, in the sense that at const. E and temp. the increments of Q in consecutive equal intervals of time are not equal. In expts. with impulses of different lengths, 5×10^{-8} , 6×10^{-8} , or 9×10^{-8} sec. each, with each following curve taken down after prolonged heating of the specimen, plots of Q against the time t , for the 3 impulse lengths τ , show Q at the same total t to be much greater with the shorter τ . Owing to this absence of additivity in BaTiO_3 , the rate of polarization i , detd. by the slope of the curve $Q(t)$ at $t = 0$, is not a true rate even though it does give some insight into the dynamics of the process. As illustrated by a curve at $E = 37.5$ v/cm., $\tau = 5.27 \times 10^{-8}$ sec., i as a function of the temp. behaves as the dielec. const. of BaTiO_3 , with a peak at about 105° . As a function of E , below the Curie point, i increases nonlinearly with E , approx. following $i = Ae^{\alpha E}$, where A and α are temp.-dependent. Above the Curie point, i is a linear function of E . Intentional preliminary polarization of a sample previously depolarized by heating results in a diminished i in a subsequent expt.; that effect increases with in-

over

creasing closeness to the Curie point and decreases rapidly above it. (1) The fact that BaTiO_3 is a semiconductive substance only in the presence of impurities giving rise to free Ba^{2+} ions indicates that its polarization is due to deformation of lattice cells by excess Ba^{2+} ions; this effect produces regions of spontaneous polarization through the action of the dipole moment of the deformed cell. The added polarization that arises on application of an external field is the result of the displacement of free Ba^{2+} ions. With increasing E , the size of the spontaneous-polarization domains increases until they come into contact with one another, at which point Q reaches satn.; the value of E at which the satn. is reached should decrease with increasing impurity content, and the Curie point should shift to lower temps. The 1st impulse detcs. the polarization through growth of the regions of spontaneous polarization and rotation of their elec. dipole moment; the increase of Q in further impulses is attributed to accumulation of weakly bound electrons around the polarized regions, i.e. to increasing space charge. This point of view is corroborated by preliminary expts. on the distribution of the potential in BaTiO_3 , which below the Curie point remains uniform while the current decreases with time, whereas 30-40° above the Curie point there is no decrease of the current, i.e. no space charge. N. Thon

STAFAYCHUK, YE. A.

USSR/Electricity - Dielectrics

Dec 51

"Effect of Displacing Field on Magnitude of Dielectric Permeability and Dielectric Losses in BaTiO_3 ," Ye. V. Sinyakov, Ye. A. Stafaychuk, L. S. Sinegubova, Dnepropetrovsk State U

"Zhur Eksper 1 Teoret Fiz" Vol XXI, No 12, pp 1396-1402

Study of thermal behavior of dielec permeability and losses of BaTiO_3 under effect of displacing elec field showed shift of Curie point toward higher temp. Found sharp drop of tangent of angle of dielec losses and smoothing of its characteristic max under superposition of

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USSR/Electricity - Dielectrics
(Contd)

Dec 51

strong displacing field. Observed distortion of hysteresis loop under displacing field effect.

Submitted 27 Jan 51

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SINIYAKOV, Ye. V.; STAFIYCHUK, YE. A.; CHERNYI, B. K.

Barium Titanate.

Authors' reply to remarks of M. S. Kosman on their article "Dynamics of polarization process of barium titanate." Zhur. eksp. i teor. fiz., 23, No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

S/181/60/002/01/18/035
B008/B014

24.7800

AUTHORS: Sinyakov, Ye. V., Stafiychuk, Ye. A.

TITLE: Solid Solutions of Niobates and Tantalates of Transition
Elements Formed on the Basis of BaTiO₃ ✓

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 1, pp. 73-79

TEXT: The authors examined niobates and tantalates of Mn, Co, and Ni as well as their solid solutions on the basis of BaTiO₃. The samples were prepared by the usual ceramic procedure. The authors prepared compounds corresponding to the formulas AB₂O₆ and A₂B₂O₇ (A = Mn, Co, Ni; B = Nb, Ta) and their solid solutions ranging from 0.5 to 7 mole% in BaTiO₃. The dielectric constant of compounds of the types AB₂O₆ and A₂B₂O₇ within the range of -195 to +195°C was found to be independent of temperature. The quantities ϵ and $\tan \delta$ are indicated in Table 1. The compounds mentioned are not piezoelectric. Figs. 1-2 illustrate temperature dependences of ϵ for systems of the type BaTiO₃-AB₂O₆. Addition of more

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Solid Solutions of Niobates and Tantalates of Transition Elements Formed on the Basis of BaTiO_3 S/181/60/002/01/18/035 B008/B014

than 1 mole% of AB_2O_6 to BaTiO_3 causes the piezoelectric properties of barium titanate to vanish. Solid solutions of BaTiO_3 with pyroniobates and tantalates of Mn, Co, and Ni (Figs. 3-7) differ greatly in their properties. A strong shift of the Curie point toward lower temperatures may be observed in all compounds of $\text{BaTiO}_3\text{-A}_2\text{B}_2\text{O}_7$ under consideration (Fig. 8, Table 2). All solid solutions of the systems $\text{BaTiO}_3\text{-A}_2\text{B}_2\text{O}_7$ are piezoelectrics. Some of them have hysteresis loops of a marked rectangular shape and a non-linearity exceeding largely that of BaTiO_3 .

A comparison of the electric properties of the systems under review reveals that $\text{AB}_2\text{O}_6\text{-BaTiO}_3$ and $\text{A}_2\text{B}_2\text{O}_7\text{-BaTiO}_3$ differ very much in their composition. It may be assumed that the addition of AB_2O_6 to barium titanate leads to structural deformations. This was established on the basis of strongly blurred lines on X-ray pictures of the samples and on the basis of a strong deformation of the samples after sintering (Fig. 9). Presumably, this deformation may be considered to be the reason for the

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9,2180 (3203,1162)
24,7700 (1043,1143)

S/048/60/024/011/020/036
B006/B056

AUTHORS: Stafiychuk, Ye. A. and Sinyakov, Ye. V.

TITLE: The Electrical Conductivity of Solid Solutions of Niobates
and Tantalates of Mn, Co, and Ni on a BaTiO₃ Basis

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,
Vol. 24, No. 11, pp. 1380 - 1383

TEXT: The present paper is a reproduction of a lecture delivered on the 3rd Conference on Ferroelectricity, which took place in Moscow from January 25 to 30, 1960. The authors investigated the dielectric properties of polycrystalline samples of solid solutions of Mn-, Co-, and Ni-niobates and -tantalates on a BaTiO₃ basis in variable electric fields, and give a report on the results obtained with respect to the temperature- and concentration dependence of the electrical conductivity, the thermo-emf, as well as of the influence exerted by Mn²⁺-, Co²⁺-, and Ni²⁺-ions upon the electrical conductivity of BaTiO₃. The production of

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The Electrical Conductivity of Solid Solutions of Niobates and Tantalates of Mn, Co, and Ni on a BaTiO_3 Basis

S/048/60/024/011/020/036
B006/B056

the samples had been described in Ref.1. On the disk-shaped samples, platinum electrodes were fixed by means of cathode sputtering. The investigations were made within the temperature range of 50-200°C and with fields of the order of 20 v/mm. The most important results of the measurements are given in Tables 1 and 2. The "compounds" given in the form " $\text{A}_2\text{B}_2\text{O}_7$ " showed a break in the curve $\log \sigma = f(1/T)$. The temperature at the break, the activation energy (calculated according to the formula $\sigma = \sigma_0 \exp(-u/2kT)$), and the resistivity increase during the transition from Mn \rightarrow Ni. The results obtained by investigating the influence exerted by the various ions upon the ferroelectric properties of BaTiO_3 are given in Table 2. The temperature dependence of the thermo-emf α is shown in the three diagrams of Fig.2 for the solid solutions of the kind $\text{BaTiO}_3 - \text{A}_2\text{B}_2\text{O}_7$ for various concentrations of the additions. The $\alpha(t)$ -curves take a considerably different course and partly also differ considerably only in the case of different additional concentrations. Thus, e.g., BaTiO_3 with 1 mole% " $\text{Mn}_2\text{Ta}_2\text{O}_7$ " shows a α decreasing

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The Electrical Conductivity of Solid Solutions of Niobates and Tantalates of Mn; Co, and Ni on a BaTiO_3 Basis

S/048/60/024/011/Q20/036
B006/B056

exponentially with temperature, and with 0.5 mole%, α increases exponentially with temperature (between 70 and 150°C). There are 2 figures, 2 tables, and 4 references: 2 Soviet and 2 Japanese.

Таблица 1

Table 1

Соединение	U, eV	$\rho_{уд}$ при 149°, $\Omega \text{ см}$	Соединение	U ₁ , eV	U ₂ , eV	Температура перехода, °C	$\rho_{уд}$ при 149°, $\Omega \text{ см}$
1	2	3	4	5	6	7	8
MnTa_2O_6	1,84	$1,03 \cdot 10^{11}$	$\text{Mn}_2\text{Ta}_2\text{O}_7$	0,54	1,02	115	$6 \cdot 10^8$
CoTa_2O_6	1,7	$3,57 \cdot 10^{11}$	$\text{Co}_2\text{Ta}_2\text{O}_7$	0,62	1,16	127	$2 \cdot 10^7$
NiTa_2O_6	1,68	$3 \cdot 10^{10}$	$\text{Ni}_2\text{Ta}_2\text{O}_7$	1,92	1,56	153	$4 \cdot 10^{10}$
MnNb_2O_6	1,08	$2,49 \cdot 10^9$	$\text{Mn}_2\text{Nb}_2\text{O}_7$	1,38	—	—	$1,6 \cdot 10^7$
CoNb_2O_6	1,56	$2,99 \cdot 10^{10}$	$\text{Co}_2\text{Nb}_2\text{O}_7$	1,46	1,76	113	$5,2 \cdot 10^7$
NiNb_2O_6	1,74	$7,7 \cdot 10^{11}$	$\text{Ni}_2\text{Nb}_2\text{O}_7$	1,62	1,19	150	$6,2 \cdot 10^{11}$

Table 1

Legend to Table 1: 1) Compound; 2) U, 3) resistivity at 149°C, 4) compound, 5) U₁, 6) U₂, 7) temperature of the breaking point, 8) resistivity at 149°C.

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Додатка	Мол. %	U, eV	U, eV	ρ _{пл} при 101° Ω см
1	2	3	4	5
NiNb ₂ O ₆	1	2,6	1,2	8·10 ¹¹
	2	1,74	0,84	4·10 ¹¹
	3	1,44	0,14	1,5·10 ¹²
	5	1,6	0,8	3,6·10 ¹⁴
	4	1,6	0,52	1,6·10 ¹¹
CoNb ₂ O ₆	2	1,16	0,42	1,3·10 ¹¹
	3	0,78	—	2,9·10 ¹⁰
	5	0,76	0,54	1,8·10 ¹⁰
	0,5	2,0	0,4	7,5·10 ¹¹
	1	1,68	1,2	2,1·10 ¹¹
MnNb ₂ O ₆	2	1,02	—	3,7·10 ¹¹
	3	1,04	—	2,9·10 ¹⁰
	5	1,04	0,96	2,3·10 ¹⁰
	7	1,12	1,04	5,1·10 ⁹
	1	1,82	0,8	3,4·10 ¹¹
Ni ₂ Nb ₂ O ₇	2	1,9	0,7	3·10 ¹¹
	3	1,52	1,02	3,28·10 ¹¹
	5	1,4	1,14	1,98·10 ¹¹
	1	1,2	0,86	8,2·10 ⁹
	2	0,78	—	1,9·10 ⁹
Co ₂ Nb ₂ O ₇	3	0,92	—	2,3·10 ⁹
	5	1,28	—	2·10 ⁹
	0,5	1,3	1,2	3,8·10 ¹⁰
	1	0,98	0,98	1·10 ¹⁰
	2	1,12	—	9,8·10 ⁹
Mn ₂ Nb ₂ O ₇	3	1,04	0,88	3,8·10 ⁹
	5	0,98	—	1,3·10 ⁹
	7	1,0	—	6·10 ⁷

Table 2

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B006/B056

Темпера- тура из- лома	Добавка	Мол. %	U, eV
7	1	2	3
138: 78 127	NiTa ₂ O ₆	1	1.78
127		2	4.78
138		—	—
181	CoTa ₂ O ₆	1	0.7
147		2	0.8
—		3	0.88
144		5	1.0
Ск. 109 Ск. 97	MnTa ₂ O ₆	—	—
—		1	1.12
—		2	1.05
145		3	1.0
140		—	—
—		7	1.04
124	Ni ₂ Ta ₂ O ₇	1	2.18
147		2	1.84
91		3	1.5
80		5	1.2
185	Co ₂ Ta ₂ O ₇	1	0.78
—		2	0.82
—		3	0.96
—		5	1.2
Ск. 109 119	Mn ₂ Ta ₂ O ₇	0.5	1.5
—		1	1.04
130		2	0.96
—		3	0.96
—		5	0.92
—		—	—

Table 2

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B006/B056

U, eV	ρ_{27} при 150° Ω см	ρ_{27} при 70° Ω см	Температура разлома
4	5	6	7
0,7	1,06·10 ¹¹	—	145: 98
0,84	2,6·10 ¹¹	2,8·10 ¹¹	145
—	—	—	—
0,54	5,4·10 ¹⁰	2,5·10 ¹¹	132
0,64	1,2·10 ¹¹	8,9·10 ¹¹	150
0,6	1,4·10 ¹⁰	1,7·10 ¹¹	90
0,8	5,2·10 ¹⁰	7,3·10 ¹¹	123
—	—	—	—
—	1,3·10 ¹¹	6,10 ¹¹	Ск. 95
0,84	9,5·10 ¹⁰	1,9·10 ¹¹	113
—	6,6·10 ¹⁰	1,7·10 ¹¹	—
—	9,7·10 ¹⁰	2,5·10 ¹⁰	—
—	—	—	—
0,88	3,5·10 ¹⁰	2,7·10 ¹¹	147
1,0	1,2·10 ¹⁰	5,2·10 ¹¹	134
1,2	3,6·10 ¹⁰	1,2·10 ¹¹	130
—	2,5·10 ¹⁰	1,5·10 ¹¹	—
—	—	—	—
—	2,10 ¹⁰	2,10 ¹¹	—
—	2,2·10 ¹⁰	2,8·10 ¹⁰	—
—	2,2·10 ¹⁰	3,7·10 ¹⁰	—
—	1,1·10 ¹⁰	4,3·10 ¹⁰	—
—	—	—	—
0,82	1,10 ¹¹	6,10 ¹¹	Ск. 104
—	2,9·10 ¹¹	6,10 ¹⁰	132
—	2,6·10 ¹⁰	5,8·10 ¹⁰	—
—	6,2·10 ¹⁰	1,2·10 ¹⁰	—
—	1,5·10 ¹⁰	2,6·10 ¹⁰	—

Table 2

Legend to Table 2: 1) addition, 2) concentration in mole%, 3) U_1 ,
4) U_2 , 5) resistivity at 161°C, 6) resistivity at 80°C, 7) temperature
of the break.

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85885

S/048/60/024/011/021/036
B006/B060

24.7300(1043,1145,1160)

AUTHORS: Sinyakov, Ye. V. and Stafiyuchuk, Ye. A.

TITLE: Properties of Some Solid Solutions of the Type
BaTiO₃-A₂B₂O₇ in Strong Electric Fields

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,
Vol. 24, No. 11, pp. 1384-1386

TEXT: This is the reproduction of a lecture delivered at the Third Conference on Ferroelectricity which took place in Moscow from January 25 to 30, 1960. The authors examined specimens of compositions AO - B₂O₅, 2AO - B₂O₅, where A: ^AMn, ^ACo, ^ANi and B: ^BNb or ^BTa, as well as their solid solutions on BaTiO₃ basis. The compositions 2AO - B₂O₅ proved to be a mixture of meta-compounds with oxides of bivalent metals and are called "pyrocompounds". The nonlinear properties of the specimens were measured at 50 cps with an instrument described in Ref. 6 at temperatures which were about equally distant from the Curie point. The measurement results are graphically shown in Figs. 1,2 and numerically compiled in a Table.

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Properties of Some Solid Solutions of the
Type BaTiO_3 - $\text{A}_2\text{B}_2\text{O}_7$ in Strong Electric Fields

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B006/B060

Position and height of the peaks of the $\epsilon(E)$ curves are greatly dependent on the addition; BaTiO_3 - $\text{Ni}_2\text{Ta}_2\text{O}_7$ has, e.g., for 0 and 1 mole% addition about the same $\epsilon(E)$ curves, while at 2 mole% the maximum lies at smaller E and is considerably higher, and at 3 mole% the $\epsilon(E)$ curve is considerably lower, the maximum being small and appearing only at large E values. Fig. 2 shows the effect of additions upon height and position of the maxima of the $\epsilon(E)$ curves. Investigation results are in good agreement with X-ray and high-frequency experiments. It was found that the introduction of bivalent cations of transition metals causes the tetragonality of unit cells to drop considerably and that the Curie point is markedly shifted toward low temperatures. The greatest nonlinearity is found in such compounds as exhibit the least tetragonality, i.e., those with Ni^{2+} ions. Although the ionic radii of Mn^{2+} , Co^{2+} , and Ni^{2+} are not differing appreciably, they still have quite different effects upon the properties of solid solutions on BaTiO_3 basis, which fact is explained by the different filling of the 3d subshells of these ions. There are 2 figures, 1 table, and 7 references: 5 Soviet, 1 British, and 1 US.

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Properties of Some Solid Solutions of the
Type BaTiO_3 - $\text{A}_2\text{B}_2\text{O}_7$ in Strong Electric Fields

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B006/B060

1 Добавка	1 мол. %				2 мол. %			3 мол. %		
	$\theta, ^\circ\text{C}$	$E_m, \text{kV cm}^{-1}$	ϵ_m	c/a	$\theta, ^\circ\text{C}$	$E_m, \text{kV cm}^{-1}$	ϵ_m	$\theta, ^\circ\text{C}$	$E_m, \text{kV cm}^{-1}$	ϵ_m
$\text{Mn}_2\text{Nb}_2\text{O}_7$	80	7	10800	1,007 ₄	35	3,3	16000	-25	12	5100
$\text{Co}_2\text{Nb}_2\text{O}_7$	82	5	12000	1,005 ₄	22	2,2	20800	-70	8,6	7340
$\text{Ni}_2\text{Nb}_2\text{O}_7$	73	4,3	9750	1,003 ₇	1	1,09	32400	-95	6,86	5500
$\text{Mn}_2\text{Ta}_2\text{O}_7$	82	7,6	8100	1,006 ₄	44	2,98	11000	8	—	—
$\text{Co}_2\text{Ta}_2\text{O}_7$	85	6,18	12800	1,004 ₉	7	1,95	16400	-76	9,23	5200
$\text{Ni}_2\text{Ta}_2\text{O}_7$	66	3,2	14900	1,004 ₅	-7	1,45	28000	-108	4,14	8040

Legend to the Table: Nonlinear properties of the solutions of the
 BaTiO_3 - AOAB_2O_6 type. 1) Addition. The subscript m denotes the value at
the $\epsilon(E)$ curve maximum.

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15-2650

28442

S/185/61/006/002/018/020
D210/D304

AUTHOR: Stafiychuk, Ye.A.

TITLE: The problem of the influence of NiO and MnO on
dielectric properties of BaTiO₃

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 2, 1961,
277 - 279

TEXT: BaTiO₃ was prepared synthetically with additions of MnO between 0, 1 and 7 mol %. The results of measurements are shown. The system BaTiO₃ - NiO was studied by Ye.V. Sinyakov, F.F. Kodzhespirov, B.K. Chornyy (Ref. 2: Nauchn. zap. Dnepropetrovskogo gos. un-ta, vol. LXV, 36, 1956). It is said that it is possible that MnO in the case of $n > 1$ mol % leads to the partial formation of the hexagonal modification of BaTiO₃ but on the X-ray photogramm of the specimen with 7 mol % MnO no additional lines were found. It is necessary to know which of the cations in the structure of

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D210/D304

The problem of the influence . . .

X

BaTiO₃ is replaced by the cation of the admixture. The radii of the bivalent cations Mn⁺⁺ and Ni⁺⁺ are much smaller than the radius of the Ba⁺⁺ cation, but much larger than that of the Ti ion. The assumption that Mn and Ni enter BaTiO₃ in trivalent state and replace the ion Ti⁺⁺⁺⁺ is to be rejected due to the boiling temperature of the specimens (1360°). Besides, it was proved by Hurd, Simpson, and Tredgold that these ions enter BaTiO₃ in bivalent state. The author believes that the cations Mn⁺⁺, Co⁺⁺, Ni⁺⁺ occupy the positions of Ba ions in BaTiO₃, and that this view is confirmed by comparison of the displacements of Curie temperatures for 1 mol % NiO ($\Delta\theta = 22^\circ\text{C}$) and MnO ($\Delta\theta = 14^\circ\text{C}$). The comparison is not correct if one assumes that in case of 1 mol % MnO the admixture is not entirely included into the solid solution, but from the consideration of the curves $\theta = f(n\%)$ where $n < 1\%$, one concludes that at equal concentrations of MnO and NiO the Curie temperature is lower in the case of NiO. It is known that if Ti⁺⁺⁺⁺ in BaTiO₃ is replaced by an ion of larger radius, the Curie tem-

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S/185/61/006/002/018/020
D210/D304

The problem of the influence ...

perature decreases, and the larger the radius of the replacing ion the larger θ must be. If Mn^{++} and Ni^{++} replaced Ti^{+++} , $\Delta\theta$ for the system $BaTiO_3 - MnO$ would be larger for the system $BaTiO_3 - NiO$ (since $r_{Ni^{++}} < r_{Mn^{++}}$) which contradicts the experimental data. Substitution of Ba^{++} by an ion of smaller radius also leads to lowering the Curie point. In the present case ($r_{Ni^{++}} < r_{Mn^{++}}$) the decrease is larger in the system containing NiO . There are 1 figure, and 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: Sakudo Tunetaro, J. Phys. Soc. Japan, 12, 1050, 1957; I.D. Hurd, A.W. Simpson, R.H. Tredgold, Proc. Phys. Soc. 73, pt. 3, 448, 1959; H.W. Gandy, Phys. Rev. 113, s. II, 795, 1959.

ASSOCIATION: Dnipropetrovs'kyi derzhavnyi universytet (State University, Dnepropetrovsk)

SUBMITTED: September 9, 1960

Card 3/3

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S/181/62/004/005/028/055
B106/B112

AUTHOR: Stafiychuk, Ye. A.

TITLE: Reversible characteristics of some solid solutions of the type $\text{BaTiO}_3 - \text{A}_2\text{B}_2\text{O}_7$:::

PERIODICAL: Fizika tverdogo tela, v. 4, no. 5, 1962, 1270 - 1273

TEXT: The reversible characteristics of ceramic BaTiO_3 specimens with additions of the type $\text{A}_2\text{B}_2\text{O}_7$ were measured and calculated in order to explain the changes in these characteristics with decreasing Curie point. The displacement of the Curie point in a constant field can be expressed by $\Delta T_c = \frac{1}{A'} \left(-\frac{2C}{B} \right)^{1/2} E$. The dependence of these constants A' , B , and C on the concentration of the added amount when a phase transition of the first kind occurs was also established. The absolute values of the constants B and C increase with the concentration but A' remains nearly constant. The phase transition point is displaced to higher temperatures and the dependence $\Delta T_c = f(E)$ is linear in $\text{BaTiO}_2 - \text{Ni}_2\text{Nb}_2\text{O}_7$. There are 2 figures

Card 1/2^c

Reversible characteristics of ...

S/181/62/004/005/028/055
B108/B112

and 1 table. The most important English-language reference is: W. Merz.
Phys. Rev., 91, 513, 1953. *f*

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk
State University)

SUBMITTED: January 2, 1962

Card 2/2

STAFIYEVSKAYA, T.N.

Apollinariii Innokent'evich Kazantsev. Arkh.anat.gist.i embr. 38
no.3:116-117 Mr '60. (MIRA 14:5)
(KAZANTSEV, APOLLINARIII INNOKENT'EVICH 1888-)

STAFIYEVSKIY, A.N.; BELOGLAZOV, N.K., kand.tekhn.nauk

Filter press tiles made of reinforced rubber. Khim.prom.
no.6:463-464 Je '62. (MIRA 15:11)
(Filters and filtration)

HUNGARY/Analytical Chemistry. Analysis of Inorganic
Chemistry.

E

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81372.

Author : Gyenes I., Stafko B.

Inst :

Title : Investigation of Certain Intermediate Products
Obtained in the Preparation of Diethylstilbendyl.

Orig Pub: Magyar kem. folyirat, 1958, 64, No 1, 16-17.

Abstract: With the aid of Kofler's micro-instrument the
melting points were determined for n-oxypropyophenone
(I), for a crystalline complex of pinacone deriva-
tive (3,4- dioxo - 3,4 di - n - oxyphenyl-n-hexane)
with acetone (II) and of a pinacoline derivative
(4,4-bis-n-oxyphenyl-3-hexane) (III). I was obtained
by adding to a solution of 100 gr of technical pinna-

Card : 1/2

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Belgische ... (Zememerictvi. Praha. Vol. 4, No. 5,

May, 1954)

/ East

... (1954), 10, Vol. 4, No. 6,

STAFL, A.

Some problems of copyright in map works. p. 145.
KARTOGRAFICKY PŘEHLED, Prague, Vol. 9, no. 4, Dec. 1955.

S: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956,
Uncl.

STAFL, A.

"Copyright for cartographic works."

p. 58 (Kartograficky Prehled) Vol. 10, no. 2, June 1956
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

STAFL, A.

Proper technics for obtaining biopsy material in colposcopic examinations, Cesk. gyn. 28 no.3:207-209 Ap '63.

1. Gyn.-por. klin. lek. fak. KU v Plzni, prednosta prof. dr.
Vl. Mikolas.

(COLPOSCOPY) (BIOPSY) (UTERINE NEOPLASMS)
(NEOPLASM DIAGNOSIS)

DOHNAL, V.; STAFL, A.

Clinical significance of individual types of tissue in the field of examination. Cesk. gynek. 29 no.1:53-57 F'64

1. Gyn.-por. odd. MUNZ v Plzni (vedouci: MUDr. M. Sedláč) a Gyn. por. klin. lek. fak. KU v Plzni (prednosta: prof. dr. V. Mikuláš).

★

STAFLOVA, J.; STAFL, A.

Morphological histochemical illustration of the vascular bed
of the eye and its accessory organs. Cesk. oftal. 21 no.2:
97-98 Mr. 1965

1. Oční klinika (prednostať prof. dr. R. Knobloch, DrSc.); gyn.-
por. klinika (prednostať prof. dr. V. Mikolas) lékařské fakulty
Karlovy University v Plzni.

STAPL, A., (Plzen, Capkovo nam. 1); LINHARTOVA, A.: DOHNAL, V.

Colposcopic picture of fielding and its pathogenesis. Cesk. gynek.
44 no.3:209-210 Ap'65.

1. Gyn.-por. klinika (prednosta: prof. dr. V. Mikolas); Siklův
ústav patologické anatomie (prednosta: prof. dr. J. Vanek, DrSc.);
lékarské fakulty Karlovy University v Plzni a gyn.-por. odd.
Městského ústavu národního zdraví v Plzni (ředitel: MUDr.
M. Sedlak).

STAFL, Adolf

Use of the azo coupling method for identification of phosphatase
in the study of the capillary network of the cervix uteri. Cesk.
morf. 10 no.3:336-338 '62.

1. Gyn. -- por. klinika LFKU v Pizni, prednosta Prof. MUDr. Vladimir
Mikolas.

(CERVIX UTERI blood supply) (CAPILLARIES anat & histol)
(AZO COMPOUNDS pharmacol)

STAFL, Adolf

Methods for the demonstration of the terminal vascular bed in the cervix uteri. Cesk. gynek. 27 no.3:217-219 Ap '62.

1. Gyn. por. klin. lek. fak. KU v Plzni, prednosta prof. MUDr. Vl. Mikolas.

(CERVIX UTERI blood supply)

I. STAFF

"The Neocene of the Slivenec platform. p. 46. CASOPIS; ODDIL PRIRODOVEDNY,
Vol. 121, no. 1, 1952, Prague, Czechoslovakia)

SO: Monthly List of East European Accessions, L.C. Vol. 2 No. 7, July 1953, Uncl.

Stach, A.

Two generations of ice-formed pot holes near Stara Lysa.

p. 237 (Sbornik) Vol. 62, no. 3, 1957. Praha, Czechoslovakia.

50: Monthly Index of East European Accessions (EEAI) LC, Vol 7, no. 1, Jan 1958

Slava, ...

Remains of weather-worn rocks from the Tertiary period along the lower part of the
Uslava River.

p. 238 (Sbornik) Vol. 62, no. 3, 1957. Praha, Czechoslovakia.

30: Monthly Index of East European Accessions (EEAI) LC, Vol 7, no. 1, Jan 1958

Electrical Engineering Abstracts
May 1954
Reactors and Relays

① *Additional losses in multi-layer reactors*
M. STAL, *Elektrotech. Obzor*, 42, No. 6, 309-17
(1953) in Czech.

Equations for calculating the copper losses in multi-layer reactors are developed from Maxwell's equations. The differential equations for current density and for the radial and axial magnetic fields are solved using infinite progressions, and those referring to the current density are further simplified with the aid of Bessel functions and finally transformed into hyperbolic and goniometric functions. A practical example of the application of these equations is given.

H. STAL

8-13-54

S.M.L., V.; R.M.L., J.

Transient phenomena in switching asynchronous motors on and off. p. 165.
(ELECTROTECHNICKY OBYER, vol. 44, no. 4, Apr. 1955, Praha)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 11,
Nov. 1955, Uncl.

Stafl, V.; Franzl, M.

"Additional losses in the screening plates of turbogenerators.

p. 69 (Prace, Vol. 6, 1956 (Published 1957) Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) IC, Vol. 7, No. 6, June 1958

STAFEL, J. M. L.

PHASE I BOOK EXPIRATION SOV/4408
Československá akademie věd. Sekce technická

Práce ústavu pro elektrotechniku ČSAV z r. 1957, VIII (Proceedings of the Institute for Electrical Engineering of the ČSAV (Czechoslovak Academy of Sciences) for 1957, Nr 8) Prague, 1958.
186 p. 1,250 copies printed.

Scientific Ed.: Miroslav Tazewitz, Engineer, Doctor, Chief Ed.:
Bedřich Hájek, Corresponding Member, Candidate of Sciences, of
Science, Doctor, Engineer, Chief Ed.: František Honzl, Ed. of this
Issue: Marie Nováková, Techn. Ed.: František Honzl.

PREFACE: This collection of articles is intended for specialists
in the field of high-voltage technique.

COTRIBUTORS: The collection contains 9 original papers devoted to
high-voltage technique and to special problems of heavy-current
engineering. The papers deal with calculation of magnetic
fields and short-circuit stresses, with the finding of turn
short circuits and thermal breakdowns, and with effects of semi-
conductor coatings on windings. The investigation of lightning
arrestors, the transfer of charges in electrostatic machines,
and eddy-current losses in massive cylinders located in a mag-
netic field are also treated. References accompany 5 of the
papers. No personalities are mentioned.

VII. Janek, Vladimír, and František Vlnař. Investigation of
Spark-over Arrestor Characteristics with Special Con-
sideration for Very High Voltages
There are 10 references; 2 Czech, 4 English, and 4 German. 93

VIII. Hájek, Bedřich. Transfer of a Charge in Electrostatic
Machines with a Dielectric Transmitter
There are 3 references; 2 Czech and 1 French. 121

IX. Štáhl, Miloš. Conducting Cylinder in a Magnetic Field
There are 8 references; 3 Soviet, 4 English, and 1 German. 137

AVAILABLE: Library of Congress

CSA/4408

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12-1-60

STAFI, N.

"The magnetic field of a conductor located in a cylindrical cavity of ferromagnetic material.

p. 1 (Elektrotechnicky Obzor. Vol. 47, no. 1, Jan. 1958.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6, June 1958

STAFI, Milos

Electrodynamic effects of alternating current placed at a distance from
a conducting semispace. Acta techn Cz 5 no.2:124-142 '60. (EEAI 9:8)
(Electric currents, Alternating)

9.2/65

Z/042/62/000/010/002/004
E140/E435

AUTHORS: Kubrycht, J., Štafl, M., Engineers, Candidates of Sciences
TITLE: Experimental investigation of eddy current losses
in conductors with rectangular cross-section

PERIODICAL: Elektrotechnický časopis, no.10, 1962, 594-606

TEXT: The authors consider that even in the two-dimensional approximation, previous derivations of eddy current losses in conductors of rectangular cross-section have been based on oversimplified assumptions and nevertheless have yielded excessively complicated formulae. The purpose of the present study was the experimental determination of a simplified formula. The measurements were carried out in a homogeneous sinusoidally varying magnetic field. The distortion of the field due to the eddy currents was measured in order to assess whether this factor can be neglected. Losses were determined by a calorimetric method. Two formulae are obtained, one neglecting and the other respecting the field distortion. The former may be used with conductors whose width does not exceed approximately twice the skin depth. For arbitrary aspect ratios and angles with respect
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Experimental investigation of ...

Z/042/62/000/010/002/004
E140/E435

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to the field orientation the agreement between the measured results and those calculated by the present formulae is closer than 10%. There are 14 figures and 2 tables.

ASSOCIATION: Ústav pro elektrotechniku ČSAV, Praha
(Institute for Electrical Engineering Czechoslovak AS,
Prague)

SUBMITTED: July 15, 1962

Card 2/2

STAFLOVA, J.

Eye polytest, an instrument for mass examination of eye functions.
Cesk. oftal. 21 no.5:422-424 S '65.

1. Očni klinika lekárske fakulty Karlovy University v Plzni
(prednosta prof. dr. R. Knobloch, DrSc.).

STAFLOVA, Jaroslava

Results of ophthalmological examination of school children. Cesk.
ofth. 15 no.5:329-334 0 '59

1. Očni oddelení OÚNZ v Chebu, prednosta prof. MUDr. Jaroslav Kubík.
(VISION TESTS in inf. & child)
(STUDENTS)

1. Infekční klinika fakulty všeobecného lékařství Univerzity v Praze (prednosta - prof. dr. J. Brochaska (m.c)).

Allypsia after infectious mononucleosis. Czech. patol. 1961, 12: 100-101. N 161

1. Infekční klinika fakulty všeobecného lékařství Univerzity v Praze (prednosta - prof. dr. J. Brochaska (m.c)).

STAFLOVA, J.; STAFL, A.

Morphological histochemical illustration of the vascular bed
of the eye and its accessory organs. Cesk. oftal. 21 no.2:
97-98 Mr '65

1. Očni klinika (prednosta: prof. dr. R. Knobloch, DrSc.); gyn.-
por. klinika (prednosta: prof. dr. V. Mikolas) lekarske fakulty
Karlovy University v Plzni.

STAFFIN, S. P.

(The Five-Year Plan for electrification in the USSR) Moskva, Gos. tekhn.
izd-vo, 1927. 31 p. map.

BURKOV, T.; MARINOVA, L.; BEZENSHEK, An.; STAFUNSKI, S. _____

Frequency of some stomatologic diseases among the population of
the Pleven District depending on nutrition and social and
living conditions. Izv Inst khranene BAN 3:227-234 '64.

STAGNARA, P.

Orthopedic therapy of essential scolioses in developmental stages.
Possibilities and limitations. Acta chir. orthop. traum. cech. 29
no.4:298-303 Ag '62.

1. Kliniki pro ortopedickou chirurgii v Lyonu, prednosta prof.
Guilleminet.

(SCOLIOSIS)

STAHALIK, J.

~~STAHALIK, J.~~

GEOGRAPHY & GEOLOGY

Periodicals: GEOLOGICKE PRACE; ZPRAVY. No. 12, 1958

STAHALIK, J. Report on geologic mapping and investigation of the mercury deposits near Malachov and Tajov east of Buanska Bystrica. p. 59.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,
May 1959, Unclass.

FILAJDIC, Mirko. dr. ing. (Zagreb); VILICIC, Davorka, ing. (Zagreb); STAHAN-
Adamovic, Vlasta. (Zagreb)

Organoleptic evaluation of lipide foodstuffs. Kem ind 11 no.1:3-11 Ja '62.

1. Zavod za poznavanje i analizu zivotnih namirnica Tehnoloskog fakulteta Sveucilista u Zagrebu, Zagreb.
2. Clan Redakcionog odbora, "Kemija u industriji" (for Filajdic).

STAFIK, J.

STAFIK, J. An arched bridge made of prefabricated reinforced-concrete parts. p. 123.

Vol. 1, no. 4 Apr. 1956

NOVA TECHNIKA

TECHNOLOGY

Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

HUNGARY/Optics - Photometry. Colorimetry

K-12

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 9598

Author : Stahl Endre

Inst : ~~Univ. of Budapest~~

Title : Modern Techniques of Reproduction. III. Instruments for
Determination of Whiteness

Orig. Pub : Papiripar, 1958, 2, No 2, 129-132

Abstract : No abstract

Card : 1/1

STAHL, Endre

An invention in the printing industry. Musz elet 16 no.5:5,6 Mr '61.
(EEAI 10:4)

(Hungary--Printing)

26.2:94
9.6180

84455
P/034/60/000/007/001/003
A225/A026

AUTHORS:

Morecki, A., Doctor, Docent, Stahl, J., Master of Engineering
and Tomaszczyk, T. Master of Engineering

TITLE:

Measurement of Linear and Angular Accelerations in Mechanical
Works and Machines by Means of Tensiometric Acceleration
Meters

PERIODICAL: Pomiary-Automatyka-Kontrola, 1960, No. 7, pp. 252-254

TEXT: The authors describe two gauges which measure the rate of acceleration in machines by means of a flexure-sensitive resistor mounted on a flexible-weight support. One of them serves for the measuring of linear accelerations (Fig. 1), the other for angular accelerations (Fig. 4). They are connected to Kelvin & Hughes graphic recorders. The linear acceleration gauge (Fig. 1) consists of a mounting made of duralumin (1), of a bakelite support (2) with flexure-sensitive resistors (3) cemented on, which holds a lead weight (4) on top. The entire device is protected by a plexiglass cylinder (5) screwed onto the mounting base and tightly closed by the cap (6). The inside of the cylinder may be filled with oil used as oscillation damper. The other gauge for the measuring of angular acce-

Card 1/3

84455
P/034/60/000/007/001/003
A225/A026

Measurement of Linear and Angular Accelerations in Mechanical Works and Machines by Means of Tensiometric Acceleration Meters

Measurements is based on the same principle, but here two gauges like the ones described above are mounted on a revolving axle (Fig. 4, 2) which may be connected with the shaft of the measured motor. Electrical connections run through the mercury commutator (3). The measured accelerations may amount to 0.1 - 5 g. The ratio between the inherent oscillations of the instrument and the measuring oscillations should amount to 8:10 (without damping), 2:3 (with damping). The gauge's own oscillation may not be smaller than 150 cycles, the range of temperature: -20 to +30°C. The formula for the computation is:

$$C_{st} = 2 \epsilon = 12 \frac{G \cdot L}{E \cdot b \cdot h_o^2} \quad (1)$$

The symbols represent: C_{st} - static sensitivity of the gauge in cm/cm at 1 g acceleration; ϵ - surface distortion at the support base at 1 g acceleration; G - weight of the lead ballast; L - distance from the weight center to the point of attachment in cm; E - modulus of elasticity of

Card 2/3

STAHL, Jan, inz.

Reconstruction of city communications in Prague. Siln doprava
13 no.2:2-4 F '65.

MORECKI, A., doc., dr., inz.; STAHL, J., mgr., inz.; TOMASZCZYK, T., mgr., inz.

Thermometric measurements of angular velocity. Fomary 7 no.10:403-404
0 '61.

(Physical measurements)

STAHL, K.

Tasks of Czechoslovak radio engineering in 1953. p. 1.

Vol. 11, no. 1, Jan 1953
SLABOPROUDY OBZOR
Praha, Czechoslovakia

So: Eastern European Accession Vol. 5 No. 4 April 1956

Stahl, P.

Top organization in the field of construction engineering. p. 342.
INZENYRSKE STAVBY. (Ministerstvo stavebnictvi) Praha. Vol. 4,
no. 15, Aug. 1954.

Source: FEAL LC Vol. 5, No. 10 Oct. 1956

STAHL, Pavel, prof. inz.

Education of cadres in the building industry. Inz stavby 12
no.1:1-4 Ja'64.

1. Slovenska vysoka skola technicka, Bratislava.

STAHL, W.

Additional information on investigation of fattening capacity. Tr. from the German.
p. 365. (Koslemenyei, Budapest, Vol. 4, no. 3/4, 1954)

SO: Monthly list of East European Accessions (EEAL), LC Vol 4, no. 6, June 1955 Uncl

STAHLAVSKY, JAROSLAV, DR.

STAHLAVSKY, Jaroslav, Dr

200th anniversary of birth of Dr Jan Mayer, 6 February, 1754.

Gas.lek.cesk. 93 no.25:693-694 Je '54.

(BIOGRAPHIES,

*Mayer, Jan)

Stahlik, J.

Simple method for calculation of reinforcement load with shearing force. p. 290. INZENYRSKE STAVBY. (Ministerstvo stavebnictvi) Praha. Vol. 4, no. 6, June 1956.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

STAHMANN, G.; Liebenow, W.

Schonhagen. p. 18.

(ARIPILE PATRIEI. Vol. 3, no. 7, July 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.
Uncl.

<p>CATEGORY : Ornamental. M</p> <p>ABS. JOUR. : RZhBiol., No. 3, 1959, No. 11178</p> <p>AUTHOR : Stehn, E.</p> <p>INST. : -</p> <p>TITLE : Variety Trials of Beath (arion gracilis)</p> <p>ORIG. PUB. : Dtsch. Gartenbau, 1958, 5, No. 5, 121-125</p> <p>ABSTRACT : In the area of Leipalg, there were conducted in 1956 and 1957, the comparative trials of 38 varieties of beath from 3 large floricultural concerns, these varieties having been developed from separate clones by means of breeding and vegetative reproduction. As the result, there were selected 14 best varieties recommended for further propagation. — G. I. Leonhardt</p> <p>CARD: 1/1</p>

BERITIC, T.; STANULJAK, D.

Nickel. Lijeon. vjeon. 83 no.5:506-509 '61.
(NICKEL toxicol)

STAHULJAK, D.; BERITIC, T.

Hygienic problems of swimming pools. Lijećn. vjesn. 83 no.8:
812-814 '61.

(SWIMMING POOLS)

STAHULJAK, D.

"Determination of lead in flour and corn" by [Institut za
medicinska istrazivanja, Zagreb] K. Voloder. Reviewed by
D. Stahuljak. ~~Bul~~ sc Youg 7 no.1/2:50 F-Ap '62.

1. Rédacteur d'extraits, "Bulletin scientifique."

** other articles in this series also reviewed*

BERITIC, Tihomil, dr.; STANULJAK, Dunja, dr.; SARIC, Marko, dr.

Electric current injuries. Liječn. vjesn. 84 no.2:159-169 '62.

1. Iz Instituta za medicinska istraživanja i medicinu rada i
Skole narodnog zdravlja "A. Stampar" u Zagrebu.
(ELECTRICITY)

JAKSIC, Z.; STAHULJAK, D.

General practice physicians in the world and in our country. *Liječn.*
vjesn. 84 no.4:368-371 '62.

(GENERAL PRACTICE)

YUGOSLAVIA

Dr Bunja STANULJAK (Affiliation not given)

"The Seminar About Air Pollution."

Zagreb, Lijecnicki Vjesnik, Vol 84, No 8, Aug 1962; pp 819-820.

Abstract: Report on this five-day meeting held in June 1962 in Zenica under the combined sponsorship of the Federal Health Institute (Savezni zavod za zastitu zdravlja) and the "Zenica" foundry works. Each day was devoted to a specific theme: General Problems of Air Pollution, Pathological Mechanism of Polluted Air on Human Organs, Symptoms of Disease due to Air Pollution, Methodology of Testing Effects of Air Pollution on Man, and Detection of Pollutants in the Air and Protection from Air Pollution. There were 70 registrants addressed by 14 specialists including Dr Wilkins of Great Britain and Dr Rjazanov of USSR. Next year's (1963) seminar in occupational medicine will be held in Split and devoted to the "Effect of the Working Environment on the Central and Peripheral Nervous System of the Worker."

2/1

STAICU, C.

Dimensional analysis; stationary convection in free circulation. p. 317
STUDII SI CERCEȚĂRI DE ENERGETICĂ. București.
Vol. 5, no. 3/4, July/Dec. 1955.

SOURCE: East European Accessions List, (EEAL), Library of Congress,
Vol. 5, No. 11, November, 1956.

STAICU, C.

STAICU, C. Deduction of Elakett's equation through dimensional analysis, p. 85

Vol. 7, no. 2, Feb. 1955

GAZETA MATEMATICA SI FIZICA.

SERIA A.

SCIENCE

BUCURESTI

So: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), IC, Vol. 4. no. 9,
Sept. 1955, Uncl.

Category : DEFENSE/General Problems - Method and Technique of Investigation.

Abstr Jour : Ref Zhur - Fizika, No 3, 1957, No 5588

Author : Stancu, C.I.

Title : Determination of Physical Equations by the Use of Dimensionality.

Orig Pub : Motrol. apil., 1956, 3, No 4, 25-31

Abstract : No abstract

Card : 1/1

STATION, C.

STATION, C. Establishment of some relations in the theory of hydraulic machinery through dimensional analysis. p. 560 Yugoslavia's power resources and their utilization. p. 563

Vol. 1, no. 12, Dec. 1956

INFORMATICA

TECHNOLOGY

ROMANIA

See: East European Accession, Vol. 4, No. 5, May 1957

STATCU, C.

STATCU, C. Speed determination, through dimensional analysis, of a body falling into a viscous medium. p. 583. Vol. 8, no. 11, Nov. 1956. GAZETA MATEMATICA SI FIZICA. SERIA A. Bucuresti, Rumania.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

ITAION, C.

Dimensional analysis; the study of thermal radiation.

P. 309 (STUDII SI CERCETARI DE ENERGIE) (Bucuresti, Rumania) Vol. 7, no. 3.
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Author : Staicu C.I.

Inst : ~~Not Given~~

Title : Dimensional Analysis. Investigation of Thermal Radiation.

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Abstract : Investigation was made of the thermal radiation by modern dimensional analysis, based on the solution of a system of diaphantine equations. The results of the experimental measurements are given. The investigation leads to relations that express the maximum intensity of the spectrum and retain the proportionality with the fifth power of the absolute temperatures. Relations are derived for expressing the maximum spectral density and retaining the proportionality with the third power of the absolute temperatures. The relations satisfy the conditions of the Wien law. Two relations are obtained, expressing the spectral density and leading, through integrations, to the general density given by the

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L 30008-66 EWP(w)/EWP(k)/EWP(a)/EWP(l)

ACC NR: AP6027337

SOURCE CODE: RU/0018/66/000/001/0042/0045

AUTHOR: Croitoru, A.; Staicu, Florea

2/
B

ORG: none

TITLE: Achievements in the modernization of machine tools at the Bucharest Pump Works

SOURCE: Constructia de masini, no. 1, 1966, 42-45

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TOPIC TAGS: machine tool, quality control, industrial production

ABSTRACT: A survey of measures taken at the Bucharest Pump Work to modernize their machine tools in order to improve the quality and profitability of production. Several of the measures taken would also be useful in other types of enterprises to increase the productivity of the machines. [Based on authors' Eng. abst.]
[JPRS: 36,559]

SUB CODE: 13, 14 / SUBM DATE: none

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Author : Staicu, I.; Oprea, C. V.; Muresanu, P. L.

Inst : Rumanian Academy, Baza Timisoara

Title : New Contribution to the Knowledge of the Solonchaks of
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Orig Pub : Studii si cercetari stiint. Acad. RPR. Baza Timisoara.
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Abstract : An exemplary agricultural meliorative classification is
cited of saline soils in the lowland, particularly in
the Muresh-Aranka river basin. Acid, neutral and weakly
alkaline and alkali soils are distinguished. Some
physical-chemical properties of the soil are briefly
examined, and methods of their melioration - liming, use
of fertilizers, gypsum treatment. It is proposed to

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